

FIG. 1

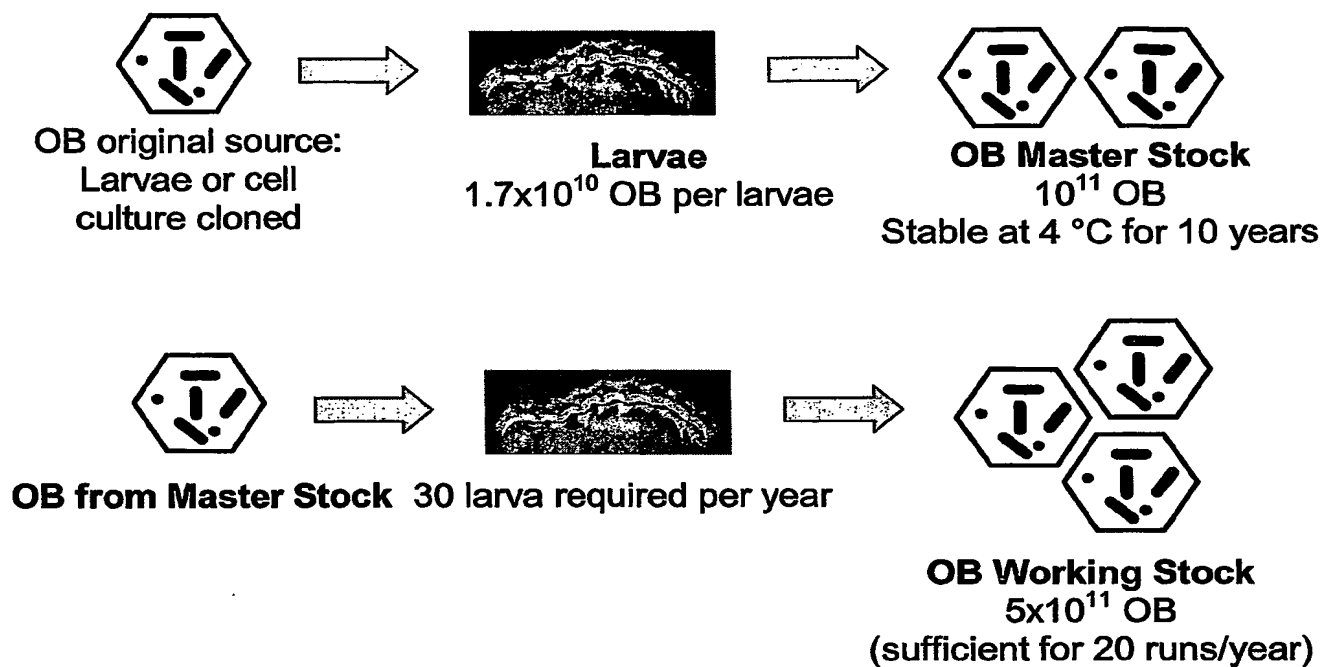
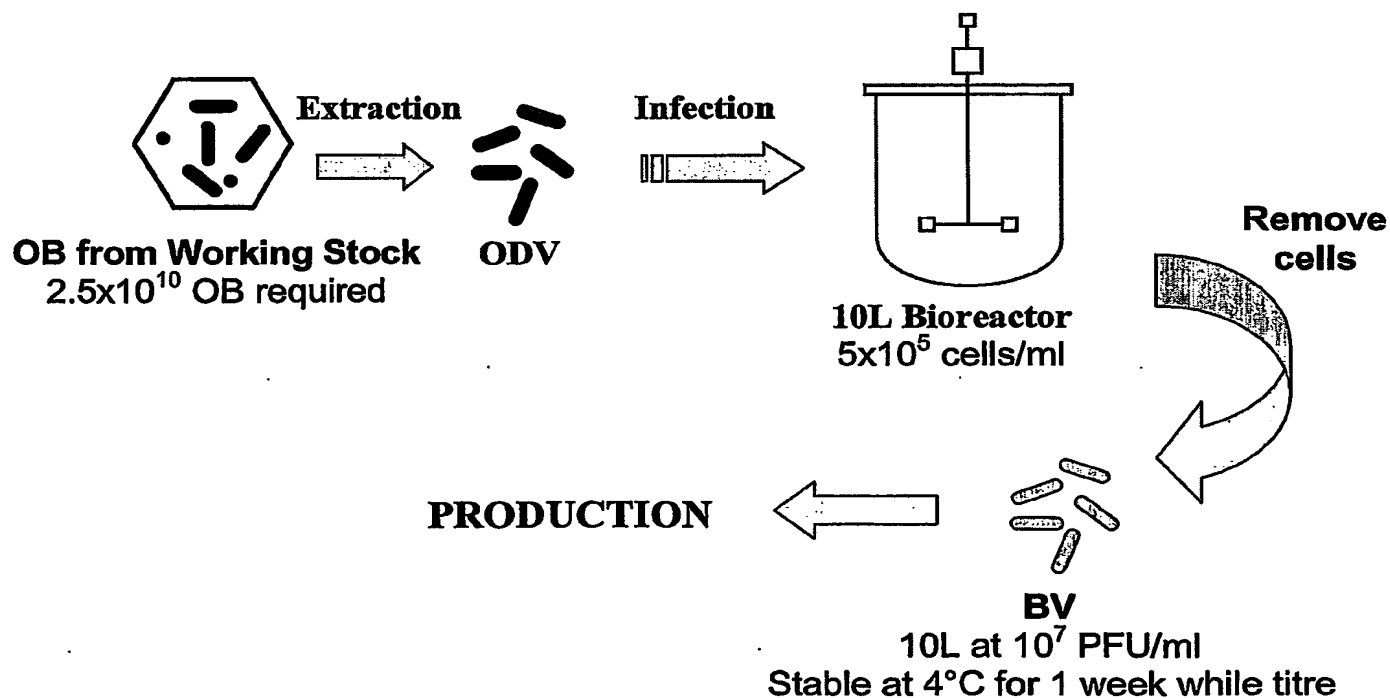
OB Stock Virus**ODV Extraction per run**

FIG. 2**VPM3 MEDIA FORMULATION****SALTS**

| Component | VPM 3 (MG/L) | VPM* (MG/L) |
|------------------------------------------------------------------------------------|-----------------|----------------|
| CaCl ₂ | 500 | 500 |
| CoCl ₂ .6H ₂ O | 0.05 | 0.05 |
| CuCl ₂ .2H ₂ O | 0.20 | 0.20 |
| FeSO ₄ .7H ₂ O | 1.70 | 1.70 |
| KCl | 1,200 | 1,200 |
| MgSO ₄ | 918 | 918 |
| MnCl ₂ .4H ₂ O | 0.02 | 0.02 |
| NaCl | 2,700 | 2,700 |
| NaHCO ₃ | 350 | 350 |
| NaH ₂ PO ₄ .H ₂ O | 1,160 | 1,160 |
| (NH ₄) ₆ Mo ₇ O ₂₄ .4H ₂ O | 0.04 | 0.04 |
| ZnSO ₄ .7H ₂ O | 0.04 | 0.04 |

SUGARS

| Component | VPM 3 (MG/L) | VPM* (MG/L) |
|-------------|-----------------|----------------|
| Glucose | 8,000 | 8,000 |
| Sucrose | 3,000 | 3,000 |
| Maltose | 500 | 500 |
| Trehalose * | 500 | 0 |
| Galactose * | 300 | 0 |

AMINO ACIDS

| Component | VPM 3 (MG/L) | VPM* (MG/L) |
|----------------------|-----------------|----------------|
| L-Cystine.2HCl | 200 | 200 |
| L-Lysine.HCl | 300 | 300 |
| L-Methionine | 200 | 200 |
| L-Asparagine | 300 | 300 |
| L-Glutamic Acid (Na) | 3,000 | 3,000 |
| L-Glutamic Acid (K) | 3,000 | 3,000 |
| Hy Pep Dev 4602 | 750 | 750 |

VITAMINS

| Component | VPM 3 (MG/L) | VPM* (MG/L) |
|------------------------|-----------------|----------------|
| Inosine | 200 | 200 |
| Choline Chloride | 10 | 10 |
| Vitamins IPL-41 (100X) | 10 ml | 10 ml |

HYDROLYSATES

| Component | VPM 3 (MG/L) | VPM* (MG/L) |
|------------------------|-----------------|----------------|
| Yeast Extract | 3,000 | 3,000 |
| Primatone | 2,500 | 2,500 |
| Hy Soy | 500 | 500 |
| Casein | 500 | 500 |
| Lactalbumin (Edamin S) | 500 | 500 |

OTHER COMPONENTS

| Component | VPM 3 (MG/L) | VPM* (MG/L) |
|--------------------------|-----------------|----------------|
| Dextran T 10 * | 50 | 0 |
| Chitosin * | 2.5 | 0 |
| Glutathione (Reduced Na) | 10 | 10 |
| Glycerol | 2,000 | 2,000 |

LIPIDS

| Component | VPM 3 (MG/L) | VPM* (MG/L) |
|----------------------|-----------------|----------------|
| Cholesterol | 4.5 | 4.5 |
| Cod Liver Oil | 12.5 | 12.5 |
| Vitamin E acetate | 3 | 3 |
| Tween 80 | 25 | 25 |
| Lecithin (Soya) * | 4 | 0 |
| ETOH (ml) | 1.25 | 1.25 |
| Pluronic Polyol F-68 | 900 | 900 |

Specifications:

pH: 6.2-6.3

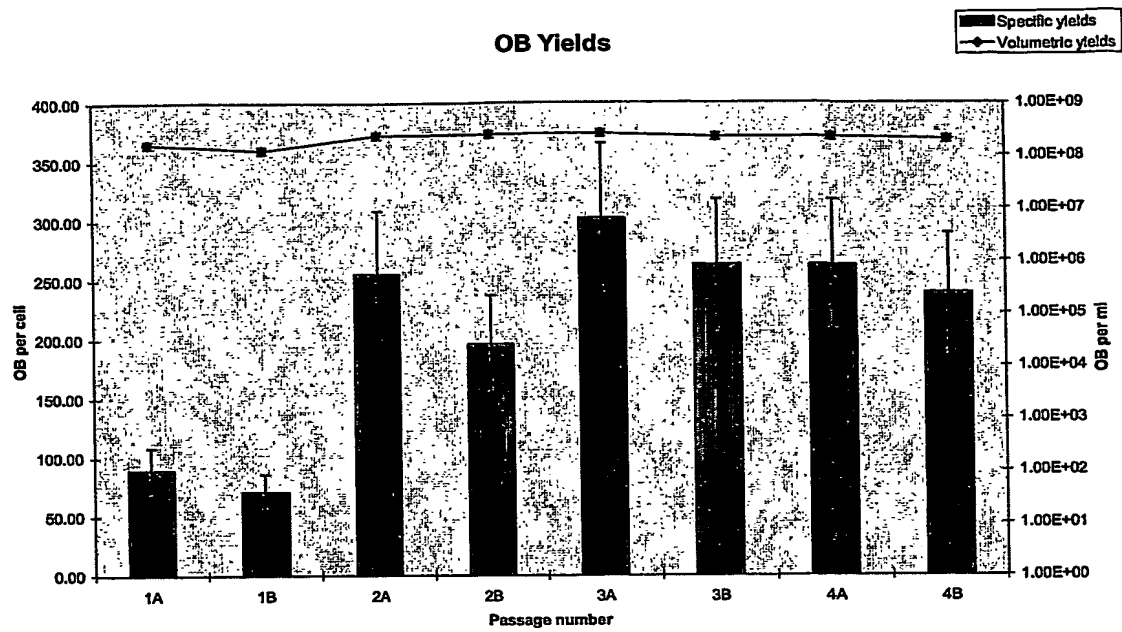
Osmolarity: 355-375 mOsm/kg

VPM3 and VPM* are low cost serum-free media that we have trialled for the ODV extraction process and subsequent passages. These media are similar but not identical to baculovirus/insect cell culture media reported in the literature. The additives indicated with an asterisk are unique additives by us into VPM3. VPM3 works better than VPM* for the extraction process. Further optimisation of the media for the ODV extraction process is possible.

FIG. 3**Table 1: Virus yield data of different ODV extractions**

| Number of OB used for extraction | Yield at passage 4 (OB per cell) |
|------------------------------------|----------------------------------|
| 5×10^9 (100 OB per cell) | 283 |
| 2.5×10^9 (50 OB per cell) | 352 |
| 1×10^9 (20 OB per cell) | 369 |
| 5×10^8 (10 OB per cell) | 339 |
| 2.5×10^8 (5 OB per cell) | 383 |

FIG.4



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